

~~SECRET~~

- 10 -

CLAIMS

sub
B

1. A system for guiding a weapon onto a preferred aim point upon a target, the system comprising target sensing means which is operable for discriminating between signals received from within a first portion of the field-of-view of the sensor and signals received from within respective ones of two further portions of said field-of-view, the two further portions being at respective opposite sides of said first portion, the system further comprising guidance signal forming means for forming a weapon guidance signal which is dependent upon the relative values of the differences between the signals from said first portion and respective ones of the signals from the two further portions.
2. A system for forming a pitch guidance signal for a weapon travelling in an inclined direction down onto a target, the system comprising target sensor means which is operable to discriminate between signals received from within respective ones of first, second and third portions of the field-of-view of the sensor means, said portions being displaced one from another along the direction crossing said field-of-view parallel to the pitch plane of the weapon with the first portion between the second and third portions, and said system further comprising means for combining said signals to form a pitch guidance signal which is dependent upon the relative values of the difference between the signals from the first and second portions and the difference between the signals from the first and third portions.
3. A system for guiding a weapon travelling in an inclined direction down onto a target, the system comprising target sensor

~~SECRET~~

~~SECRET~~

DECLASS
By Licensing Review
SECRET
11

SECRET

Sub
B
could

means, means for determining the change in the sensor signal along a direction crossing the target, and guidance signal forming means for guiding the weapon towards an aim point referenced to the position of maximum rate of said change.

4. A weapon guidance system substantially as hereinbefore described with reference to the accompanying drawings.

DECLASS
By Licensing Review
SECRET
DECLASS
By Licensing Review
SECRET